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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,370	02/21/2001	Etsuro Ogata	OGATA4	9907
1444	7590 08/08/2006		EXAMINER	
BROWDY AND NEIMARK, P.L.L.C.			HARRIS, ALANA M	
624 NINTH STREET, NW SUITE 300			ART UNIT	PAPER NUMBER
WASHINGT	ON, DC 20001-5303		1643	
			DATE MAILED: 08/08/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/763,370	OGATA ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Alana M. Harris, Ph.D.	1643				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR INCHEVER IS LONGER, FROM THE MAILING IS IN THE MAILING	NG DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a tion. y period will apply and will expire SIX (6) MOI y statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this c BANDONED (35 U.S.C. § 133).				
Status							
2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) Since this application is in condition for a closed in accordance with the practice up	This action is non-final. allowance except for formal material		e merits is			
Dispositi	on of Claims						
 4) Claim(s) 2-6,8-15 and 25-31 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 2-6, 8-15 and 25-31 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Applicati	on Papers						
10)	The specification is objected to by the Ex The drawing(s) filed on is/are: a)[Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	accepted or b) objected to to the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 C				
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO r No(s)/Mail Date	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PT	O-152)			

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DETAILED ACTION

Request for Continued Examination

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 17, 2003 has been entered.
- 2. Claims 2-6, 8-15 and 25-31 are pending.

Claims 6, 8 and 30 have been amended.

Claim 31 has been added.

Claims 2-6, 8-15 and 25-31 are examined on the merits.

Withdrawn Rejections

Claim Rejections - 35 USC § 112

3. The rejection of claims 2-6, 8-15 and 25-30 under 35 U.S.C. 112, second paragraph, in sections a, c, f and g as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is withdrawn in light of the amendments to claims 8 and 30.

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New Grounds of Objection

Specification

The amendment filed May 17, 2006 is objected to under 35 U.S.C. 132(a) 4. because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the introduction of the term "without" and the subsequent deletion of the term "with" on page 9, line 6. Applicants assert there was an important translational error, Remarks submitted May 17, 2006, page 12, 2nd paragraph. In essence. Applicants assert the Z value in the English translation is incorrectly defined by the formula (measuring value-average for the patients with bone metastasis)/ (standard deviation of a patient without one metastasis) and the Japanese text correctly states the formula including the recitation "without bone metastasis". The formula is based on several values that are not provided in the specification. While the specification notes Z values for BALP and osteocalcin on pages 3 and 10 and have values listed in Figure 2, the values used to ascertain these Z values are not provided (i.e. measured values, average for the patients without bone metastasis and the standard deviation of said patients). Moreover, the Examiner cannot read the Japanese language. Consequently, one of ordinary skill in the art cannot verify whether or not the Z value did in fact use an average without bone metastasis.

Applicant is required to cancel the new matter in the reply to this Office Action.

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Claim Objections

5. Claim 8 is objected to because of the following informality: the term "osteoblastsor" on line 4 of the said claim should be replaced with the phrase "osteoblasts or". Correction is required.

New Grounds of Rejection

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 7. Claims 2-6, 8-15 and 25-31 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. THIS IS A NEW MATTER REJECTION.

Applicants have amended the claims, namely claims 6, 8 and 30 to include the recitation "an average value for patients *without* bone metastasis". As stated in the objection to the specification this translational mistake cannot be verified because one of ordinary skill in the art cannot calculate the Z value due to the lack of values (i.e. measured, average for the patients without metastasis and the standard deviation of a patient without bone metastasis). While Applicants state this amendment is supported by the Japanese text they are

reminded the Examiner is not proficient in the Japanese language. There is not corresponding information provided to support the amendment to the claims.

Applicants' claims, namely independent claims 6 and 8 have been amended to read on methods of diagnosing amelioration and/ or exacerbation of metastasis of malignant tumor to bone in patients with cancer and evaluating the efficacy of drugs for treatment of cancer implementing values (Z values and crossover indexes) obtained from markers for bone formation and bone resorption. Claims 6 and 8 have been amended to now include

- 8. The rejection of claims 2-6, 8-15 and 25-31 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is maintained and made.
- a. Claims 6, 8 and 30 are vague and indefinite in the recitation "and determining a crossover index by dividing said Z value for osteocalcin by said Z value for ..., said crossover index and said ICTP level providing a diagnosis...".

Applicants assert the characteristic features of the invention and the claims are clear to those skilled in the present art, see Remarks, section b, beginning 15. Applicants inquire as to the Office's questioning of what the number means after the algorithm is completed. Applicants' points of view have been carefully considered, but found unpersuasive.

The question presented in the Final Action mailed November 17, 2005 was whether or not a value obtained by the crossover index was representative

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of a particular assessment, i.e. the drugs for treatment were effective or bone metastasis has progressed, for example. If a crossover index yielding a score in the range of 0-5 means cancer has metastasized opposed to a score of 6-10 means the cancer has not. Applicants are requested to clarify how the crossover index score defines or aids in determining whether or not there is amelioration and/or exacerbation of metastasis and the efficacy of drugs for cancer treatment.

b. Claims 2-6, 8-17 and 25-30 continue to be vague and indefinite because it is not clear from the claims how the two markers are used in ascertaining efficacy of a drug and the method steps are not clear.

Applicants argue citing a particular number for the crossover indexes in the claims would render the claims unduly restrictive, see Remarks, page 18, 1st full paragraph. And while this is true the claims should note wherein a result for example, is indicative of metastasis or no metastasis or the drugs administered for cancer treatment were or were not effective. Applicants need not recite a specific number, however the claims should be reflective of the meaning of crossover index. Applicants are requested to ensure clarity and completeness.

c. Claim 8 is vague and indefinite because the claim notes in the preamble that the evaluation of efficacy of drugs is based on assessing one marker of osteoblast activity or one marker of osteoclast marker.

Applicants retort the claim is intended to and does recite the use of two markers, one that reflects the activity of osteoblasts and the other reflects the activity of osteoblasts; or a marker that reflects the activity of osteoblasts, see Remarks, paragraph bridging pages 14 and 15.

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Applicants seem to note two scenarios; first, the use of two markers, one that reflects the activity of osteoblasts and the other reflects the activity of osteoclasts and the second, the activity of a marker that reflects the activity of osteoblasts. It is not clear what Applicants are attempting to convey. According the the preamble the method requires one marker, while the method steps require three markers, see claim, page 7, lines 1-4. The first two markers are bone formation markers (osteoblast markers) and the third is a bone resorption marker (osteoclast marker). Accordingly, the method is still vague and indefinite.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alana M. Harris, Ph.D. whose telephone number is (571)272-0831. The Examiner works a flexible schedule, however she can normally be reached between the hours of 7:30 am to 6:30 pm, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry R. Helms, Ph.D. can be reached on (571) 272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALANA M. HARRIS, PH.D. PRIMARY EXAMINER

Alana M. Harris, Ph.D.

07 August 2006